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OBJECTIVE:

Highly dedicated skilled Engineer with broad and deep proficiency in variety of tool designs and construction techniques. Adept at handling projects in an efficient, cost-effective manner.

ACADEMIC BACKGROUND:

Currently pursuing **MBA Project Management** from **Alagappa University** from June 2020 to June 2022.

Education	Name of the Institute	University	Month & Year of Completion
M.E. in Tool Engineering	NTTF School of Postgraduate Studies, Bangalore	Nettur Technical Training Foundation (NTTF), Bangalore	November 2020
PG Diploma in Tool Design	NTTF School of Postgraduate Studies, Bangalore	Nettur Technical Training Foundation (NTTF), Bangalore	August 2018
B.E in Mechanical Engineering	Kings Engineering College, Chennai	Anna University, Chennai	May 2016
HSC	Sri Vijay Vidhalaya HSS, Hosur	Tamilnadu State Board	April 2012
SSLC	Maharishi Vidhya Mandir, Hosur	CBSE	March 2010

SOFTWARE KNOWLEDGE:

Autocad, Creo Parametric, NX cad, Ansys Workbench 2019 R2, MS office, ERP tools (Busy, Prospin).

TECHNICAL KNOWLEDGE:

- Design of plastic moulds (2 plate mould, 3 plate mould, compression mould and transfer mould).
- Design of press tools (progressive tool, compound tool, draw tool, and bending tool).
- Design of jigs & fixtures (angle plate jig, table jig, leaf jig, indexing jig, milling fixture).
- Design of gauges (plug gauge and functional gauge).
- Proficient in using 3D CAD for design tooling.
- Good knowledge on manufacturing process and selection of materials.
- Can work with design engineering to identify and escalate potential manufacturing challenges by enforcing DFM and DFA principles.

WORK EXPERIENCE:

- **PGET-Project at Tadpole Engineering Consultancy Private Limited., Chennai (Commercial Tool Room)** from 10.08.20 to present.
ACTIVITY: Completed **Internship** from 10.08.20 to 10.11.20 and working as **Post Graduate Engineer Trainee** in Tool design, Project management, sales and marketing. Activities involves coordinating with customer relationship, feasibility study report, technical presentation preparation, Gantt chart preparation, method plan preparation.
- **Management Trainee at Drill Jig Bushing Co. (Madras) Pvt. Ltd., Chennai** from 10.10.2018 to 31.08.19.
ACTIVITY:
For **Drill Jig Bushing Co. (Madras) Pvt. Ltd., Chennai**:
 - Involved in design, drafting and fabrication of main assembly jigs, sub assembly jigs, milling fixtures, welding fixtures.
 - Design of production components both standard components and non-standard for various client companies.
 - Design of inspection gauges for checking components.
 - Participated in design reviews to identify production related issues and makes recommendations for process improvements for quality product output.For **Afex Technologies Pvt. Ltd., Tiruchirappalli**:
 - Design of machine layout and process layout for new die casting plant.
 - Assist product development team with new product designs.
 - Preparation of CAD layouts for the purpose of manufacturing and inspection.
- Graduate Apprentice Trainee at **Tenneco Automotive India Pvt. Ltd., Hosur** (Manufacture of shock absorbers) from 30.03.17 to 04.09.17.
ACTIVITY: Ensuring assemblage of the shock absorber and on looking the quality check and enabling firewall inspection of the completed product for various client companies.
- Graduate Trainee at **SK Engineering., Chennai** (All types of tool room work) from 16.05.16 to 27.03.17.
ACTIVITY: Involved manufacturing design for various clients using AutoCAD and in-charge of production activity of machining the end product.

ACADEMIC PROJECTS:

- PGTE Project: Design of “Press Tool for HVAC mounting bracket in BIW upper dash panel sub assembly”.
Description: Design of Press Tool for HVAC mounting bracket using 3D modelling ensuring the desired functionalities with better efficiency and cost effectiveness.
- PGDTD Project: Design and Manufacture of “Piercing Tool”.
Description: Design and manufacture of single station piercing tool and planned a process sequence and got familiarized with the machining activity.
- Undergraduate Project: Study on “Thermal analysis of Aluminium and Carbon mixture”.
Description: By mixing Aluminium and Carbon, studied the thermal analysis through the method of differential scanning calorimeter and thermo gravimeter. By these, implemented

the application of strengthening the combustion chamber. Published a paper in International Journal IJARTET.

- Undergraduate Design and Fabrication Project: Design and Fabrication of “Six leg kinematics moving machine”.
Description: Demonstrated its motion with a hand crank, kinematic pair of four bar linkage is connected to sprocket on both sides.

CO-CURRICULAR ACTIVITIES:

- Pursued **Engineering Project Management** from **Rice University** from July 2020 to December 2020.
- Presented and published a paper in the international journal IJETCSE (ISBN: 978-93-84893-28-8) titled “Design and manufacturing of disc refiner” (ISSN: 0976-1353).
- Presented a paper on “Aluminium matrix composite” at IIT-Madras, Chennai in 2015.
- Developed project on “Drivers emergency protocol” and participated in innovation competition at TECHFLUENCE-technological carnival in 2014.

EXTRACURRICULAR ACTIVITIES:

- Actively participated in NSS for special camp programme organized at Chetipedu village, Chennai in 2015 and in Thandalam village, Chennai in 2014 and participated in other concurrent programmes and completed two years of service.
- Provided services in Bharat scout and passed “TRITIYASOPAN” test connected with same as per APRO.

PERSONAL PROFILE:

- Father’s name : G.Janakiraman
- Gender : Male
- Date of birth : 04.06.1994
- Marital status : Single

DECLARATION:

I hereby declare that the above particulars are true to the best of my knowledge.

Place:

Date:

(J.SATISHKUMAR)